Palion™ Lift RS1

3,500LB CAPACITY | 5 MPH MAX SPEED | 6’ LIFT HEIGHT

Palion Lift RS1 provides end-to-end workflow automation for low-lift processes across facilities, further driving material flow efficiencies.

Flexible Material Transport and Vertical Handling of Goods

Proven ROI
Lowest total cost of ownership and the quickest time to value in the mobile automation industry, delivering positive results on day one.

Industry-Leading Payload Detection
Pick and move a wide variety of payloads with the most robust and effective payload detection capabilities on the market.

Dynamic Path Planning
Advanced autonomous detection capabilities enable real-time alignment adjustments to better handle poorly placed payloads.

Infrastructure-Free
Palion AMRs navigate with our proprietary computer-vision technology allowing us to deploy without changes to your facility.

Synchronized Self-Charging
Auto-Charge automates scheduling, dispatch, and charging to eliminate costly and hazardous human touchpoints for continuous 24/7 productivity.

Key Applications for Seegrid Palion Lift RS1

Easily integrating into your workflows, Palion Lift RS1 executes autonomous material movement from inbound to outbound, from parts-to-line and between work areas, for lean material processes and maximum throughput.

MANUFACTURING

INBOUND TO BULK STORAGE
Autonomously pick up and haul heavy loads of parts and materials to a designated storage location.

PARTS TO LINE
Pick up payloads from the floor or an elevated surface and haul goods for use on an assembly line.

OUTBOUND
Move product from a conveyor, wrapper, or assembly line to outbound staging.

LOGISTICS

INBOUND
Pick up payload from inbound staging and transport to bulk, floor, or endcap putaway locations.

CROSS DOCKING
Pick up payloads from any inbound location and transport directly to any outbound location.

OUTBOUND
Move product from staging or wrapping locations to the outbound loading dock.

> “The implementation was the easiest implementation of any capital investment I've ever done in my career in manufacturing.”

JACOB BECKER
Continuous Improvement Manager, Sumitomo Drive Technologies

Sumitomo Drive Technologies

Product Specifications

Maximum Capacity	3,500 lbs.
Maximum Automatic Speed	Up to 5.0 mph Reverse -0.7 mph
Width	50"
Length	92" (Forks Retracted)
Reach	72"
Wheels	Polyurethane
Forks	42" ITA Rated

Environment	Indoor operation only Temperature 32°F min, 104°F max Humidity 20-95% RH (non-condensing) Floor conditions should be free from oils, moisture, and debris Floors should not be uneven/cracked
Features	Industry leading pallet and payload detection Flexible, infrastructure-free navigation Route transfer between robots: train one and transfer route knowledge to all Supervisor for connected fleet management and enterprise intelligence
Battery	Voltage: 24V Max. capacity: 750 Amp x Hr Connector: Customizable Compartment: (LxWxH) 32"x 13"x 24.8" Weight: 1,078 lbs.

Safety	Safety-rated personnel detection system Secondary 3D object detection system 3 Emergency stop buttons LED lightbar for turning and status Acoustic warning system
Standard Safety Behaviors	Stops if it detects an object in the primary personnel or secondary object detection systems; resumes travel once object is removed Always sounds horn before beginning or resuming automatic travel Slows down during turns
Trained Behaviors	Prioritized traffic management with manual vehicles and other autonomous equipment Operator interaction control via start button Sounds the horn in busy areas, near walkways, in turns, etc.

Intelligent. Aware. Transformative.

3D Computer Vision

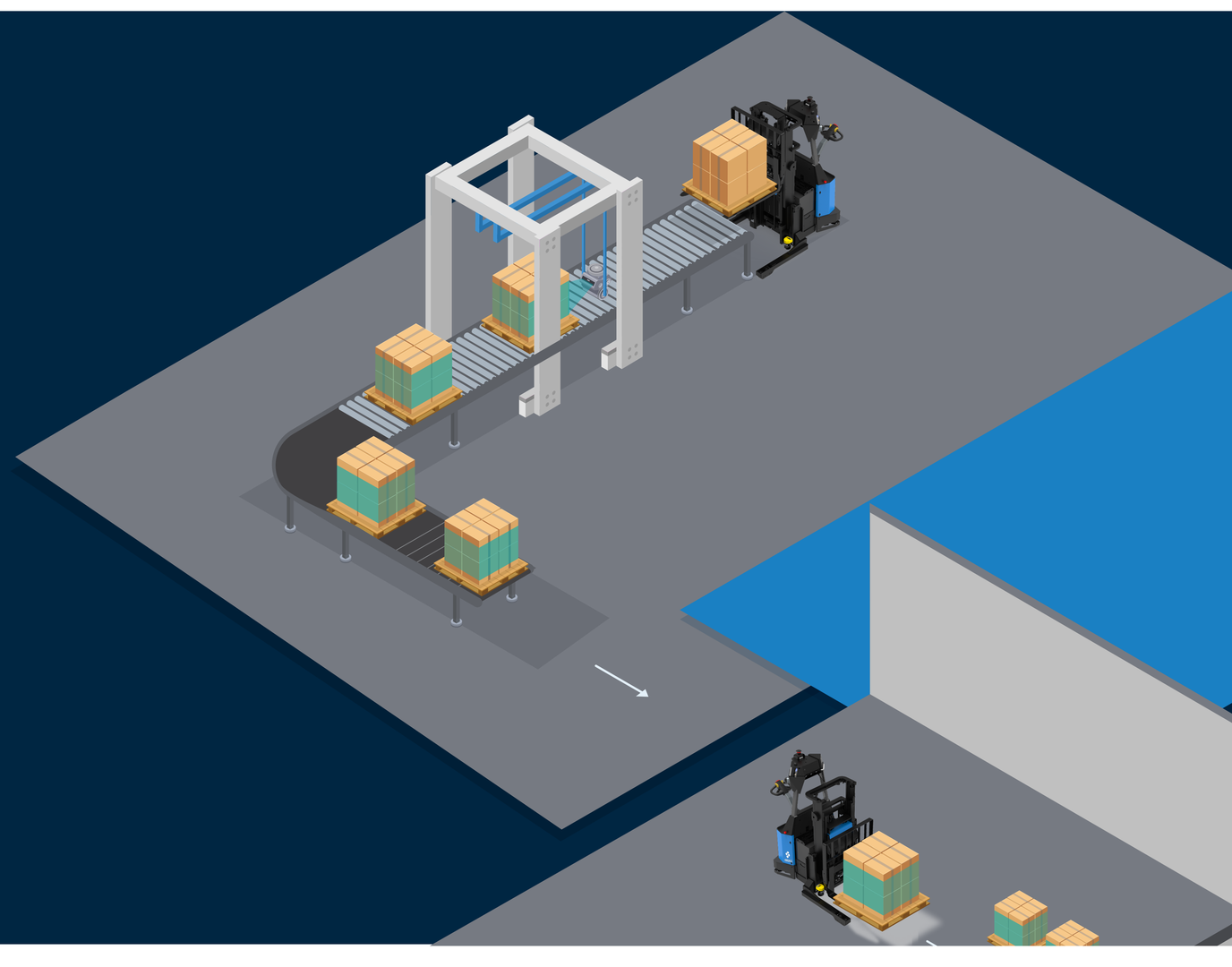
Seegrid's AI-based algorithm collects and prioritizes massive amounts of live data, enabling our robots to navigate busy industrial environments.

Sensor Fusion

Palion AMRs see and process more data for an extremely accurate understanding of their constantly changing surroundings.

Reliable and Flexible

Palion Lift RS1 navigates seamlessly in high traffic, dynamic facilities, enabling real-time route changes while production is running.



2,000+
AMRs Deployed

300+
Customer Sites

50+
Global Brands

13,000,000+
Autonomous Miles Driven to Date